

actuating said suction actuator to controllably apply suction from said suction channel to said work surface to remove residual mixed adhesive from said work surface.

REMARKS

The Applicants submit this amendment in connection with the above-identified application in response to the Office Action mailed November 5, 2002. Claims 1-17 are currently pending. In this Amendment claims 1-17 have been cancelled without prejudice and claims 18-36 have been added. Claims 18-36, which were inadvertently mis-numbered when filed, were included in a Preliminary Amendment filed February 5, 2002.

For the reasons set forth below, it is submitted that all the claims are in condition for allowance and allowance of the application is respectfully requested.

CONCLUSION


For the foregoing reasons, all claims presently on file in the subject application are in condition for immediate allowance, and such action is respectfully requested.

If it is felt for any reason that direct communication with applicants' attorney would serve to advance prosecution of this case to finality, the Examiner is invited to call the undersigned attorney at the below listed telephone number.

The Commissioner is authorized to charge any fee which may be required in connection with this Amendment to deposit account No. 50-1901.

Respectfully submitted,

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

In The Claims

Please cancel claims 1-17 without prejudice or disclaimer and add claims 18-36 as follows:

18. A method of applying an adhesive to a work surface, comprising:
controllably applying suction to said work surface;
applying an adhesive flow to said work surface; and
removing excess adhesive from said work surface with said suction.
19. The method of claim 18 wherein said adhesive comprises a multiple component material.
20. The method of claim 18 wherein said multiple component material is a fibrinogen tissue adhesive.
22. The method of claim 18 wherein said work surface comprises a mammalian tissue.
23. A method of applying an adhesive to a work surface, comprising:
providing an adhesive applicator comprising at least one reservoir to store said adhesive, a dispensing actuator in communication with said at least one reservoir, and a suction actuator in communication with a suction source;
actuating said suction actuator to controllably apply suction to said work surface;
actuating said dispensing actuator to apply a dispensing pressure to said at least one reservoir;
effecting an adhesive flow;
applying said adhesive flow to said work surface;
releasing said dispensing actuator to terminate the application of said dispensing pressure to said at least one reservoir;
terminating said adhesive flow; and
actuating said suction actuator to controllably apply suction to said work surface to remove residual adhesive from said work surface.

24. The method of claim 23 further comprises:

providing an applicator having at least two reservoirs containing at least two adhesive components;

applying an equal dispensing pressure to each of said at least two reservoirs;

effecting a flow of at least two adhesive components; and

mixing said at least two components to form a multiple component material within said applicator.

25. The method of claim 24 wherein said applicator further comprises a mixing tip in communication with each of said at least two reservoirs and said dispensing actuator.

26. The method of claim 23 further comprising applying said dispensing pressure at discreet intervals.

27. The method of claim 23 wherein said adhesive is a fibrinogen tissue adhesive.

28. The method of claim 23 wherein said work surface comprises a mammalian tissue.

29. A method of applying a multiple component adhesive to a work surface, comprising:

providing an adhesive applicator comprising at least two reservoirs to separately store said adhesive components, a dispensing actuator in communication with said at least two reservoirs, a suction actuator in communication with a suction source, and a mixing tip in communication with said at least two reservoirs;

actuating said dispensing actuator to apply a dispensing pressure to said at least two reservoirs;

effecting a flow of each of said adhesive components;

mixing said adhesive components to form a mixed adhesive;

applying said mixed adhesive to said work surface;

releasing said dispensing actuator to terminate the application of said dispensing pressure to said at least two reservoirs;

terminating said flow of each of said adhesive components; and

actuating said suction actuator to controllably apply suction to said work surface to remove residual mixed adhesive from said work surface.

30. The method of claim 29 wherein said mixing further comprises:

providing a mixing head comprising a dispensing tip in communication with a mixing channel, said mixing channel in communication with at least two channels in communication with said at least two reservoirs;

receiving each of said adhesive components from said at least two channels in said mixing channel;

mixing said adhesive components to within said mixing channel; and

applying said mixed adhesive from said dispensing tip to said work surface.

31. The method of claim 30 further comprising providing a suction channel in communication with said suction source.

32. The method of claim 31 further comprising positioning said suction channel proximate to said dispensing tip.

33. The method of claim 29 further comprising applying said dispensing pressure at discreet intervals.

34. The method of claim 29 wherein said adhesive is a fibrinogen tissue adhesive.

35. The method of claim 29 wherein said work surface comprises a mammalian tissue.

36. The method of applying multiple component fibrinogen tissue adhesive to a work surface, comprising:

providing an adhesive applicator comprising:

a) at least two reservoirs to separately store adhesive components;

b) a dispensing actuator in communication with said at least two reservoirs;

c) a suction actuator in communication with a suction source; and

d) a mixing head in communication with said at least two reservoirs, said mixing head having a dispensing tip in communication with a mixing channel, said mixing channel in communication with at least two channels, said at least two channels in communication with said at least two reservoirs, and a suction channel in communication with said suction source;

actuating said dispensing actuator to apply a dispensing pressure to said at least two reservoirs;

effecting a flow of each of said adhesive components within said at least two channels;

receiving within said mixing channel said flow of said adhesive components from said at least two channels;

mixing said adhesive components within said mixing channel to form a mixed adhesive;

applying said mixed adhesive from said dispensing tip to said work surface;

releasing said dispensing actuator to terminate the application of said dispensing pressure to said at least two reservoirs;

terminating said flow of each of said adhesive components within said at least two channels; and

actuating said suction actuator to controllably apply suction from said suction channel to said work surface to remove residual mixed adhesive from said work surface.